

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Canceled)
2. (Currently Amended) The delivery system of claim [1] 13, wherein the inner catheter member includes a guide wire lumen extending from the proximal end of the inner catheter member to the distal end of the inner catheter member.
3. (Canceled)
4. (Currently Amended) The delivery system of claim [1] 13, further including means for evacuating air from the delivery catheter.
5. (Canceled)
6. (Currently Amended) The delivery system of claim [5] 19, wherein the outer sheath is removably attached to the control handle.
7. (Currently Amended) The delivery system of claim [5] 19, wherein the proximal end of the outer sheath is attached to a strain relief member which is removably attached to the control handle.
8. (Original) The delivery system of claim 7, wherein the strain relief member has a proximal end which includes a channel formed therein and the control handle has a distal recess formed therein and a tab-like member extending

into the distal recess, the channel being adapted to receive the tab-like member to allow the strain relief member to be threadingly engaged with the control handle.

9. (Original) The delivery system of claim 8, further including a projection extending into the channel formed on the strain relief member which forms an abutting surface that prevents the tab-like member from moving past it until a rotational force is placed on the strain relief member.

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Currently Amended) ~~The delivery system of claim 12,~~

A system for delivering and deploying a medical device within a patient,
the system comprising:

a delivery catheter including an inner catheter member having a region for
mounting the medical device thereon and an outer restraining member co-axially
disposed over inner catheter member and the medical device, the outer restraining
member being adapted for axial movement with respect to said inner catheter
member;

a control handle having a rotatable thumbwheel connected to a retraction
mechanism, the inner catheter member having a proximal end attached to the
control handle and the outer restraining member having a proximal end attached to
the retraction mechanism, wherein rotation of the thumbwheel causes linear
movement of the retraction mechanism to proximally retract the outer restraining

member to uncover the medical device while the inner catheter member remains stationary, wherein the retraction mechanism includes a gear rack which is slideable within a channel formed in the control handle and a spur gear which engages the gears of the gear rack, the thumbwheel having an actuating gear attached thereto which engages the spur gear to cause the gear rack to move linearly within the channel when the thumbwheel is rotated;

stop means for preventing unintentional movement of the gear rack; and
means for allowing motion of the gear rack in only one direction within the channel, wherein the means for allowing motion of the gear rack in only one direction is a spring having an edge which contacts the distal surface of the gears forming the gear rack to prevent distal movement of the gear rack.

14. (Canceled)

15. (Currently Amended) The delivery system of claim [1] 13, further including an anti-clotting agent placed between the outer restraining member and the inner catheter member.

16. (Currently Amended) The delivery system of claim [5] 19, further including an anti-clotting agent placed between the outer restraining member and the outer sheath.

17. (Currently Amended) The delivery system of claim [5] 19, wherein the outer sheath has distal portion which has a smaller inner diameter than the proximal portion of the sheath.

18. (Currently Amended) The delivery system of claim [1] 13, wherein the medical device is a self-expanding medical device.

19. (New) The delivery system of claim 13, further including:
an outer sheath which extends co-axially over a portion of the outer restraining member.